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PRODUCT DATA SHEET

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PRODUCT NAME AND SYNONYMS: **2001 FLEECEBACK® TPO MEMBRANE**

Physical Property	Test Method	Property of Unaged Sheet	Property After Aging[1] 28 Days @ 240ºF
Thickness of reinforced sheet over fleece, in. (mm) (tolerance is ± 10%)	ASTM D 751	0.045 (1.14) - FB100 0.060 (1.52) - FB115	
Solar reflectance (albedo X 100), % (Min. for Energy Star approval is 65%) Emittance, IR (per LEEDS test protocols) Emittance, IR (per CRRC test protocols)	ASTM C 1549 ASTM E 408 ASTM C 1371	75 min, 87 typical (white) 65 min, 70 typical (tan) 0.92 typical 0.88 typical	
Breaking strength, lbf (kN)	ASTM D 751 Grab Method	225 (1.0) min. 400 (1.8) typical	225 (1.0) min. 400 (1.8) typical
Elongation at break of internal fabric, %	ASTM D751	25 typical	25 typical
Tearing strength, lbf (N) 8 by 8 in. specimen	ASTM D751 B Tongue Tear	55 (245) min. 130 (578) typical	55 (245) min. 130 (578) typical
Brittleness point, ºF (ºC)	ASTM D 2137	-40 (-40) max. -50 (-46) typical	
Ozone resistance, 100 pphm, 168 hours	ASTM D1149	No Cracks	No Cracks
Resistance to water absorption After 7 days immersion 158ºF (70ºC) Change in mass, %	ASTM D 471 (fleece removed, edges sealed)	4.0 max. 2.0 typical	
Resistance to microbial surface growth, rating (1 is very poor, 10 is no growth)	ASTM D 3274 2 yr S. Florida	9-10 typical	
Field seam strength, lbf/in. (kN/m) Seam tested in peel	ASTM D 1876	40 (7.0) min. 60 (10.5) typical	
Water vapor permeance, Perms	ASTM E 96	0.10 max. 0.05 typical	
Puncture resistance, lbf (kN)	FTM 101C Method 2031	250 (1.1) min. 400 (1.8) typical-FB100 450 (2.0) typical-FB115	250 (1.1) min. 400 (1.8) typical-FB100 450 (2.0) typical-FB115
Resistance to xenon-arc weathering[2] Xenon-Arc, 17,640 kJ/m^2 total radiant exposure, visual condition at 10X	ASTM G 155 0.70 W/m^2 80ºC B.P.T.	No cracks No loss of breaking or tearing strength	

[1]Aging conditions are 28 days at 240ºF (116º C) equivalent to 400 days at 176ºF (80ºC) for breaking strength, elongation, tearing strength, ozone and puncture resistance.
[2]Approximately equivalent to 14,000 hours at 0.35 W/m^2 irradiance. B.P.T. is black panel temperature.